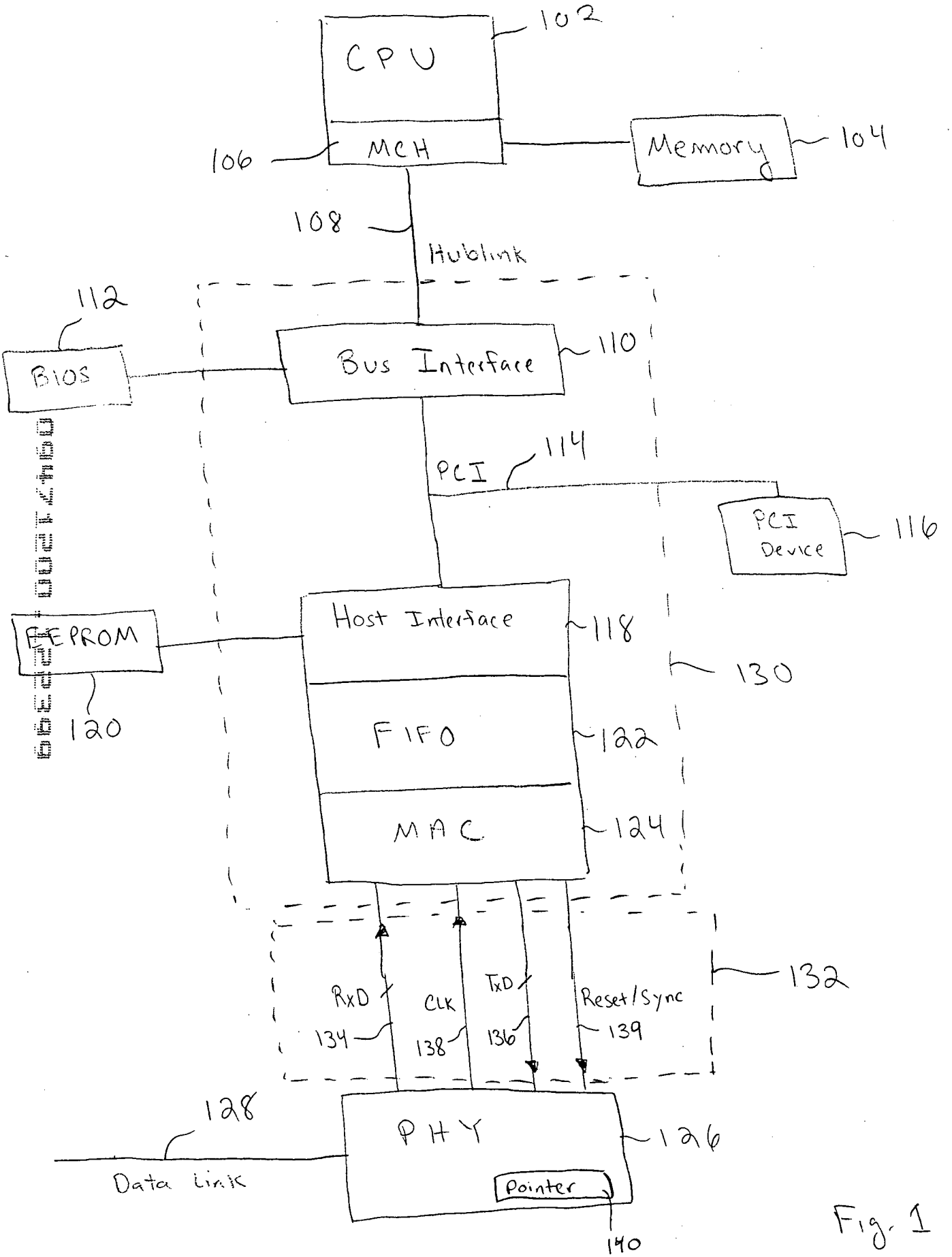
CPU
102
MCH
106
Memory
104
108
Hublink
112
BIOS
Bus Interface
110
PCI
114
PCI Device
116
EEPROM
120
Host Interface
118
130
FIFO
122
MAC
124
RxD
134
CLK
138
TxD
136
Reset/Sync
139
132
128
PHY
126
Data Link
Pointer
140

Fig. 1

	11	10	9	8	7	6	5	4	3	2	1	0
Word 0	Rx_DV = 0	Rx_Cyc	Tx_Cyc	Mdout	00		PtM_ mode	Even	CRS	Rx_Er		
Word 1					01		RST_ RQST	SQL		Duplex	Speed	I_Er
Word 2					10		rsrvd	rsrvd		rsrvd	Link	Int_rqst

Fig. 2

11	10	9	8	7	6	5	4	3	2	1	0
Rx_Dv = 1	Rx_Cyc = 1	Tx_Cyc	Rdata0	Rdata1	Rdata2	Rdata3	Rdata4	CRS	Rdata5	Rdata6	Rdata7

Fig. 3

11	10	9	8	7	6	5	4	3	2	1	0
Rx_Dv = 1	Rx_Cyc = 1	Mdout	Rdata0	Rdata1	Rdata2	Rdata3	Rdata4	CRS	Rdata5	Rdata6	Rdata7

Fig. 4

11	10	9	8	7	6	5	4	3	2	1	0
Rx_Dv = 1	Rx_Cyc = 0	Tx_Cyc	Mdout	rsrvd	rsrvd	rsrvd	rsrvd	CRS	rsrvd	rsrvd	rsrvd

Fig. 5

11	10	9	8	7	6	5	4	3	2	1	0
SEL = 0	Mdstart	Mdin	Tx_EN = 1	Tdata0	Tdata1	Tdata2	Tdata3	Tdata4	Tdata5	Tdata6	Tdata7
			Tx_EN = 0	rsrvd	rsrvd	rsrvd	rsrvd	PHY_PD	Lpbk	LED_SEL	Rx_addr _match
SEL = 1	Command_Word										

Fig. 6

Mdin	IDLE	ST	OP	Reg Addr (10 bits)	Data (16 bits)
	000...0	**1**	**01**		
Mdout	IDLE				

Fig. 7

Mdin	IDLE	ST	OP	Reg Addr (10 bits)	Wait Time	IDLE
	000...0	**1**	**10**		**0001**	**000...0**
Mdout	IDLE				**0001**	Data (16 bits)

Fig. 8

6525496

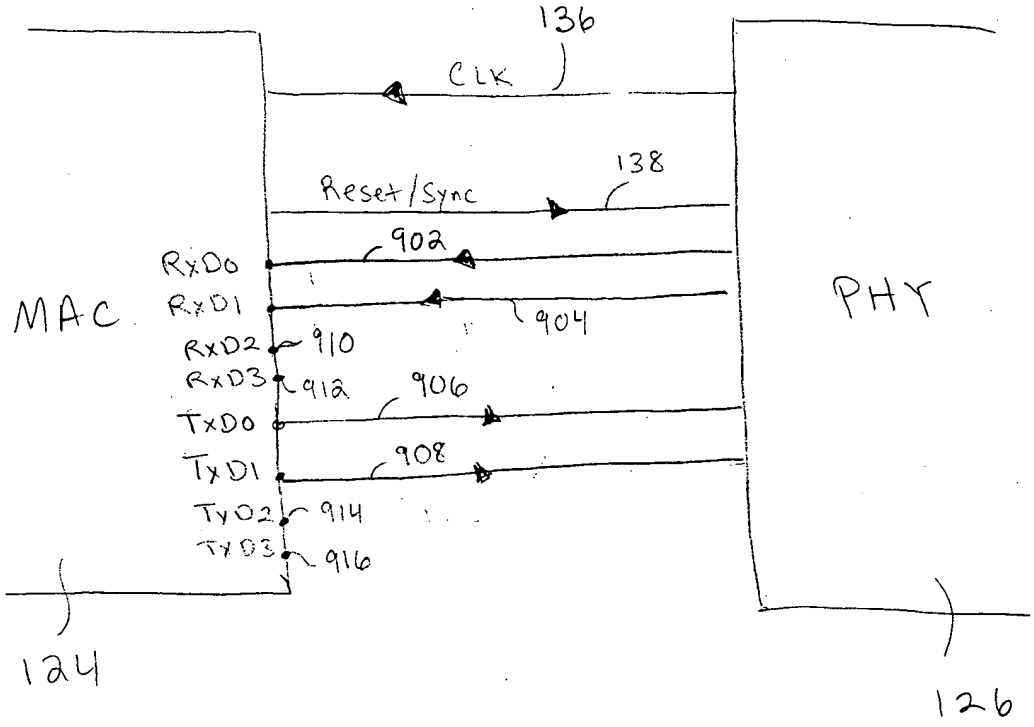
136
CLK
138
Reset/Sync
902
RxD0
RxD1
904
MAC
PHY
RxD2
910
RxD3
912
906
TxD0
908
TxD1
TxD2
914
TxD3
916
124
126

Fig. 9

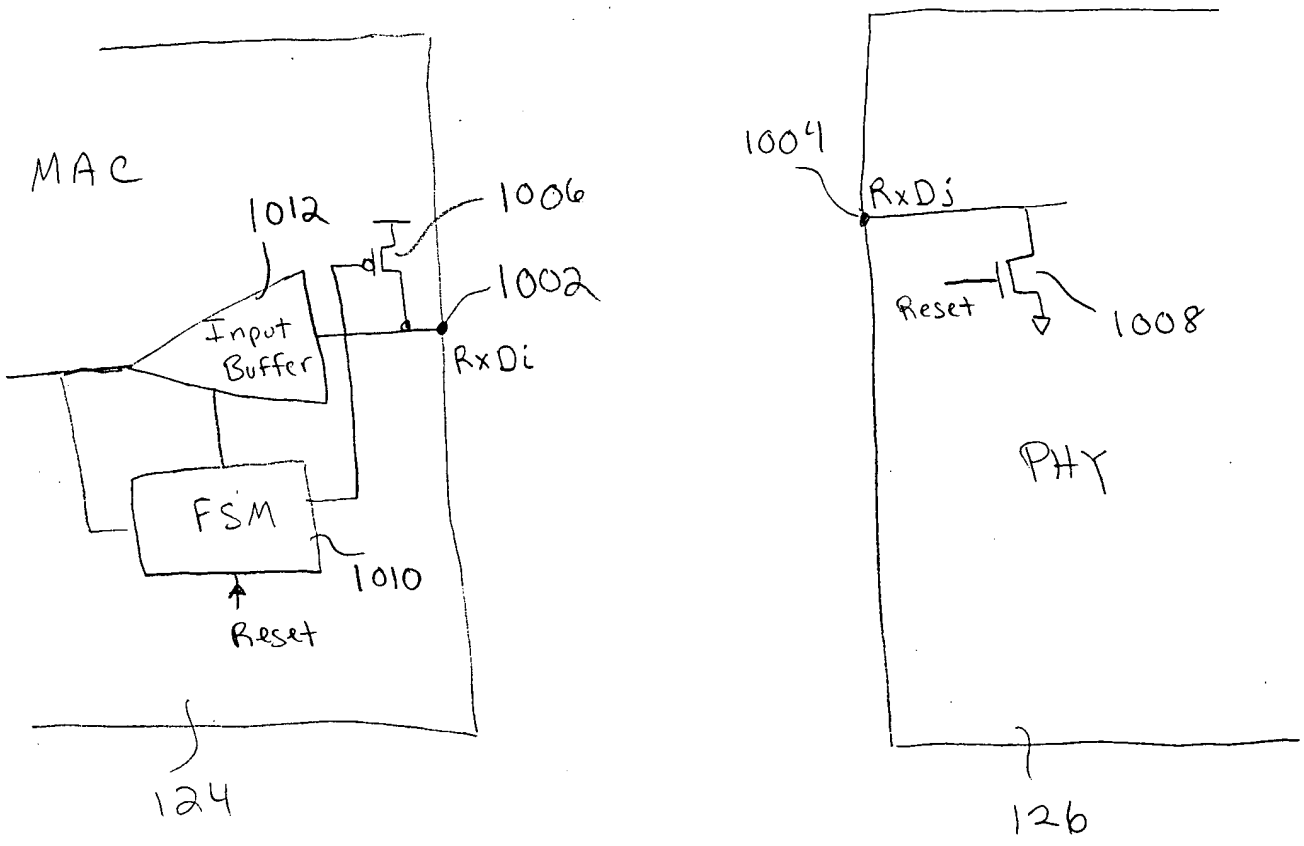
MAC
1012
1006
1002
Input Buffer
RxDi
FSM
1010
Reset
124
1004
RxDj
Reset
1008
PHY
126

Fig. 10

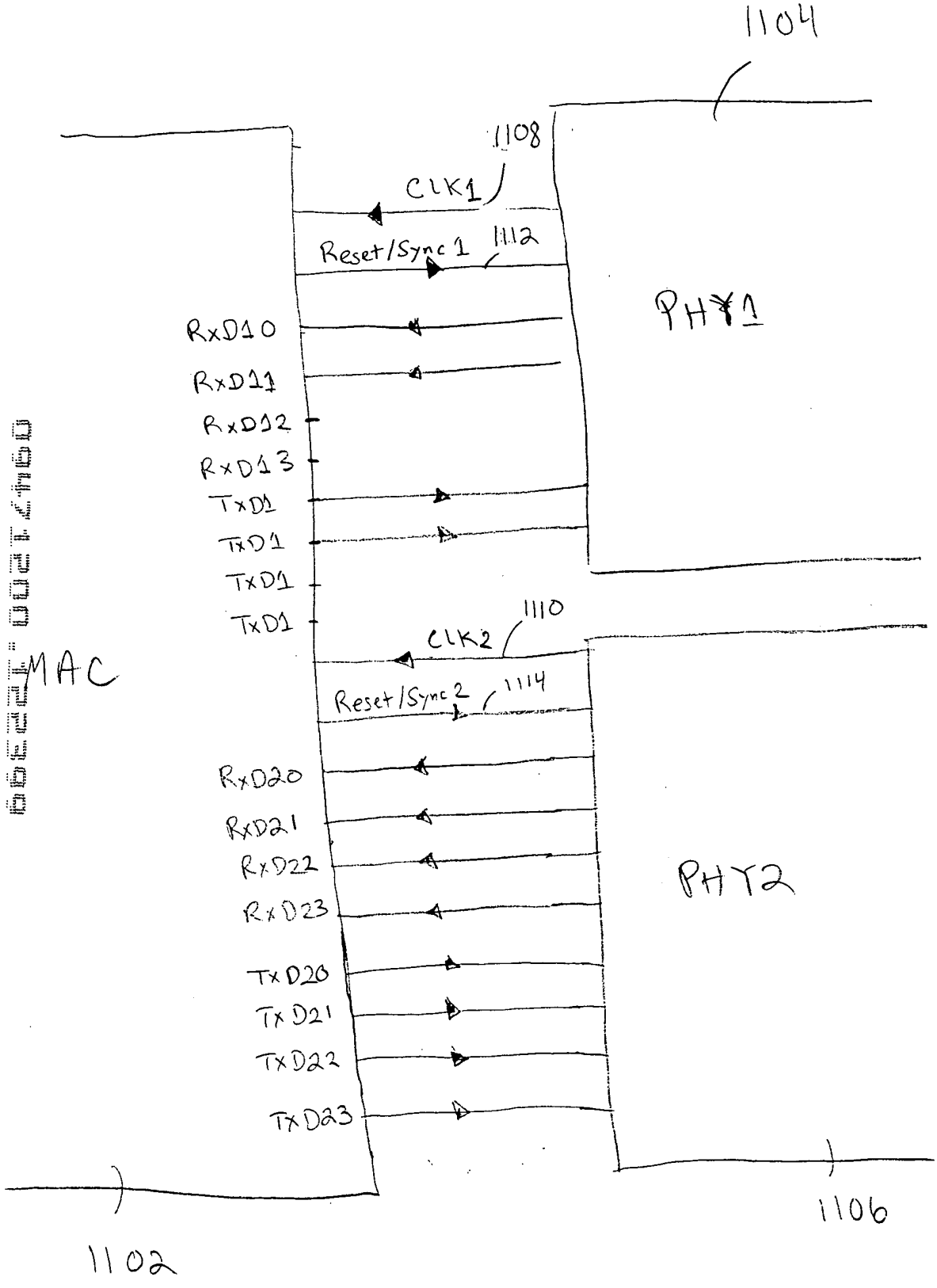
1104
1108
CLK1
Reset/Sync 1
1112
PHY1
RxD10
RxD11
RxD12
RxD13
TxD1
TxD1
TxD1
TxD1
1110
CLK2
Reset/Sync 2
1114
RxD20
RxD21
RxD22
RxD23
TxD20
TxD21
TxD22
TxD23
PHY2
MAC
1102
1106

Fig. 11

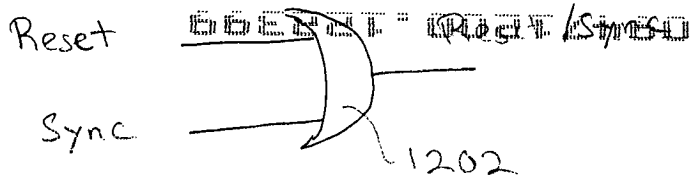

Fig. 12a

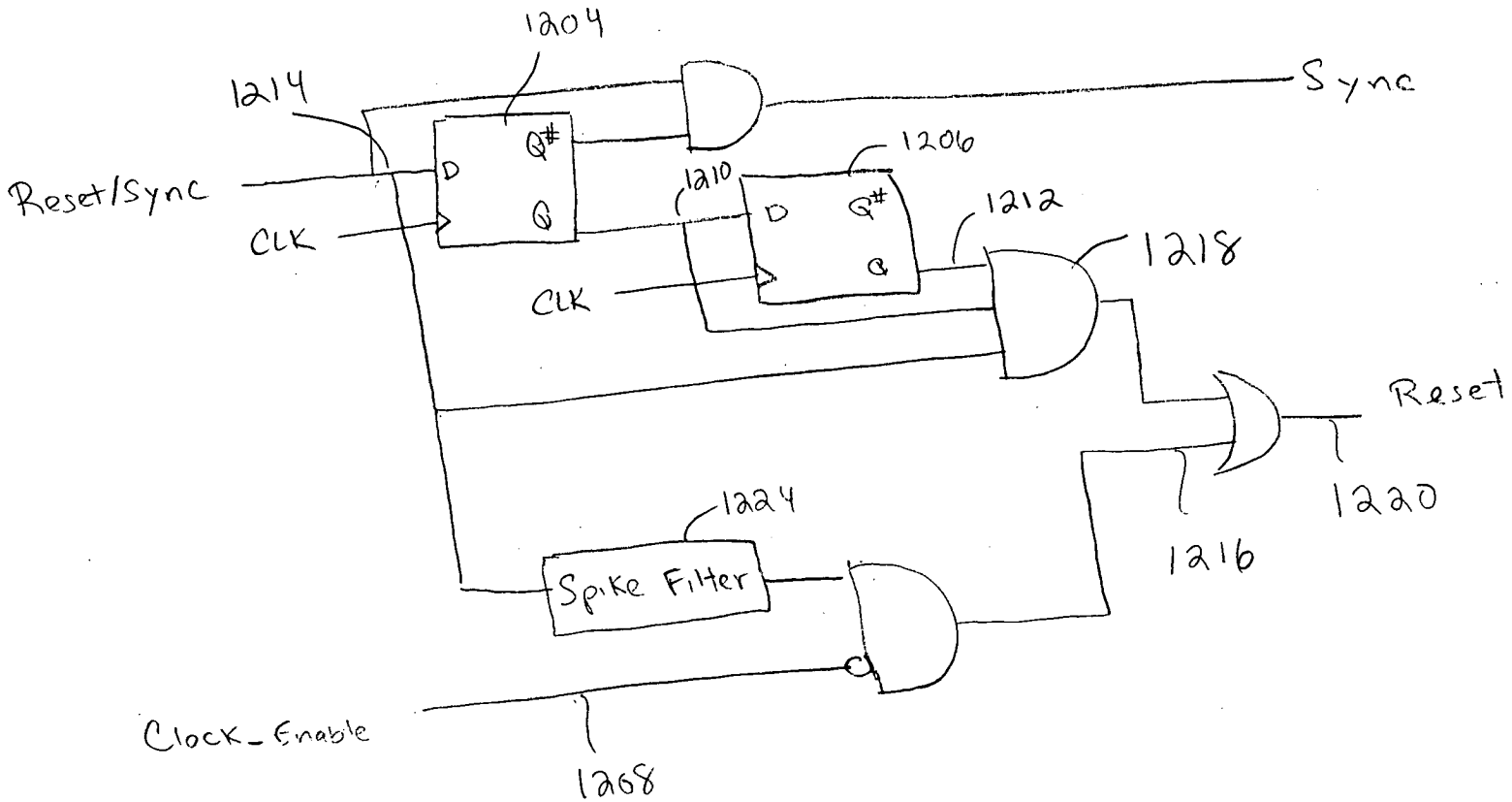

Fig. 12b